BRUHAT BANGALORE MAHANAGARA PALIKE

PWD FORM - 45 (WORK SLIP)

Name of Work: Maintainance of Drilled BBMP Borewells in ward no 10, (Doddabommasandra), Vidyaranyapura Sub Division.

Name of Agency: Sri Devaraju. K, Contractor, Kothanuru (P), Shidlaghatta (T), Bangalore - 57.

Estimated Cost: 10,00,000.00

Tender Amount : Rs. 9,50,383.50 Lakhs

Work Order No. BBMP/EE/BTP/WO/246/2015-16 Dated: 26.02.2016.

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Lifting of Submersible pump set as per Soecification and direction etc., complete and as per the directions of the Engineer-in-charge of the work	Each	28	850.00	23800.00	28.00	808.00	22624.00	0.00	0.00	808.00	0.00	0.00	0.00	0.00	0.00	22624.00		
2	Transportation of pumping machineries etc., complete and as per the directions of the Engineer-in-charge of the work	Each	28	900.00	25200.00	28.00	855.00	23940.00	0.00	0.00	855.00	0.00	0.00	0.00	0.00	0.00	23940.00		
3	Labour charges (over hauling) etc., complete and as per the directions of the Engineer-in-charge of the work	Job	28	550.00	15400.00	28.00	522.00	14616.00	0.00	0.00	522.00	0.00	0.00	0.00	0.00	0.00	14616.00		
4	A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6		28	4750.00	133000.00	28.00	4513.00	126364.00	0.00	0.00	4513.00	0.00	0.00	0.00	0.00	0.00	126364.00		
5	Starter (with one year Guarantee) etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	5050.00	141400.00	28.00	4797.00	134316.00	0.00	0.00	4797.00	0.00	0.00	0.00	0.00	0.00	134316.00		
6	Rotor (with one year Guarantee) etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	4700.00	131600.00	28.00	4465.00	125020.00	0.00	0.00	4465.00	0.00	0.00	0.00	0.00	0.00	125020.00		
7	Upper Flange etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	350.00	9800.00	28.00	333.00	9324.00	0.00	0.00	333.00	0.00	0.00	0.00	0.00	0.00	9324.00		
8	Lower Housing etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	650.00	18200.00	28.00	617.00	17276.00	0.00	0.00	617.00	0.00	0.00	0.00	0.00	0.00	17276.00		
9	Carbon Housing etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	475.00	13300.00	28.00	451.25	12635.00	0.00	0.00	451.25	0.00	0.00	0.00	0.00	0.00	12635.00		
10	Thrust bearing block assembly complete with Segment bearing pad etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	1150.00	32200.00	28.00	1093.00	30604.00	0.00	0.00	1093.00	0.00	0.00	0.00	0.00	0.00	30604.00		
11	Oil Seal etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	125.00	3500.00	28.00	119.00	3332.00	0.00	0.00	119.00	0.00	0.00	0.00	0.00	0.00	3332.00		
12	Oil Seal Steel Bush etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	150.00	4200.00	28.00	142.00	3976.00	0.00	0.00	142.00	0.00	0.00	0.00	0.00	0.00	3976.00		

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
13	Guide vane etc., complete and as per the directions of the Engineer-in-charge of the work	No.	420	175.00	73500.00	420.00	166.00	69720.00	0.00	0.00	166.00	0.00	0.00	0.00	0.00	0.00	69720.00		
14	Impeller Shell moulded with aluminium Bronze) etc., complete and as per the directions of the Engineer-in-charge of the work	No.	420	425.00	178500.00	420.00	403.00	169260.00	0.00	0.00	403.00	0.00	0.00	0.00	0.00	0.00	169260.00		
15	Discharge outlet (D.O) Bearing D.O Steel Bush etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	445.00	12460.00	28.00	422.00	11816.00	0.00	0.00	422.00	0.00	0.00	0.00	0.00	0.00	11816.00		
16	Steel Bush etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	150.00	4200.00	28.00	142.00	3976.00	0.00	0.00	142.00	0.00	0.00	0.00	0.00	0.00	3976.00		
17	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) etc., complete and as per the directions of the Engineer-in-charge of	No.	28	950.00	26600.00	28.00	902.00	25256.00	0.00	0.00	902.00	0.00	0.00	0.00	0.00	0.00	25256.00		
18	Non – return valve (NRV) assembly complete with rubber 'O' Ring etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	1350.00	37800.00	28.00	1282.00	35896.00	0.00	0.00	1282.00	0.00	0.00	0.00	0.00	0.00	35896.00		
19	Cable Guard etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	150.00	4200.00	28.00	142.00	3976.00	0.00	0.00	142.00	0.00	0.00	0.00	0.00	0.00	3976.00		
20	Brass Filter etc., complete and as per the directions of the Engineer-in-charge of the work	No.	28	250.00	7000.00	28.00	237.00	6636.00	0.00	0.00	237.00	0.00	0.00	0.00	0.00	0.00	6636.00		
21	Re-erection charges of pumping machineries including overhauling and pointing etc., complete and as per the directions of the Engineer-in-charge of	Each	15	950.00	14250.00	15.00	903.00	13545.00	0.00	0.00	903.00	0.00	0.00	0.00	0.00	0.00	13545.00		
22	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot	Rmtr	50.00	375.00	18750.00	50.00	360.00	18000.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00	0.00	18000.00		
23	Heavy Duty Collar 50 mm dia etc., complete and as per the directions of the Engineer-in-charge of the work	Nos	15	130.00	1950.00	15.00	123.50	1852.50	0.00	0.00	123.50	0.00	0.00	0.00	0.00	0.00	1852.50		
24	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor	Mtr	200.00	188.70	37740.00	200.00	185.00	37000.00	0.00	0.00	185.00	0.00	0.00	0.00	0.00	0.00	37000.00		
25	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer	Mtr	30.00	140.40	4212.00	30.00	133.00	3990.00	0.00	0.00	133.00	0.00	0.00	0.00	0.00	0.00	3990.00		
26	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trenca/duct 6Samm to 16**	Mtr	30.00	10.80	324.00	30.00	10.30	309.00	0.00	0.00	10.30	0.00	0.00	0.00	0.00	0.00	309.00		
27	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc. complete (as per Civil SR KSRB 1-2	Mtr	20.00	85.00	1700.00	20.00	80.00	1600.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	0.00	1600.00		

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
28	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements	Mtr	16.00	345.00	5520.00	16.00	327.00	5232.00	0.00	0.00	327.00	0.00	0.00	0.00	0.00	0.00	5232.00		
29	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals.	No.	4.00	280.00	1120.00	4.00	266.00	1064.00	0.00	0.00	266.00	0.00	0.00	0.00	0.00	0.00	1064.00		
30	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete and as per the	No.	36	180.00	6480.00	36.00	175.00	6300.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	6300.00		
31	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all	Nos	2	1579.40	3158.80	2.00	1500.00	3000.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	3000.00		
32	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and	No	2	227.90	455.80	2.00	220.00	440.00	0.00	0.00	220.00	0.00	0.00	0.00	0.00	0.00	440.00		
33	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation.	Sq.Cm	23400.00	0.33	7722.00	23400.00	0.32	7488.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	7488.00		
	Total															**0.00**			
								EIRL											
34	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m	Cum							128.25				128.25	182.86	23452.00	23452.00		23452.00	
	Above 1.5 Mtrs Depth Add 25% Extra								51.30				51.30	228.57	11726.00	11726.00		11726.00	
35	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded	Cum							13.23				13.23	4823.15	63810.00	63810.00		63810.00	
36	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not	Cum							137.81				137.81	3933.52	542088.00	542088.00		542088.00	
37	KSRB 15.1.2: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth	Sqm							117.00				117.00	91.43	10697.00	10697.00		10697.00	
38	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite	Cum							6.62				6.62	6.62	34549.00	34549.00		34549.00	
39	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any	Sqm							93.75				93.75	291.72	27352.00	27352.00		27352.00	

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2015-16+ T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
40	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size**	Cum							21.38				21.38	5895.65	126020.00	126020.00		126020.00	
41	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or	Tonne							1.62				1.62	59818.67	97175.00	97175.00		97175.00	
42	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							179.55				179.55	69.16	12417.00	12417.00		12417.00	
	Sub Total															**949286.00**			
	Third Party Inspection Charges @ 1%																		
	Miscelaneous and unforgen charges	LS																	
	Total				**999242.60**			**950383.50**				**0.00**			**23452.00**	**949286.00**	**950383.50**	**949286.00**	

0.12 Below

SUMMARY:

1. **Estimated Cost : Rs. 10.00 Lakhs**
2. **Tender Cost : Rs. 9.50 Lakhs**
3. **EIRL Amount Rs. 9,49,286.00 = 99.88 % of the Tender Amount**
4. **Work Slip Amount Rs. 9,49,286.00 = 99.88 % of the Tender Amount**
5. **During execution as per requirement and site condition, the total Qty to be executed costs Rs. 9.49 Lakhs which is 0.12% BELOW the Tender cost. The proposal may kindly be approved.**

Jagtha
Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/7/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division, Bangalore - 92

"Work-Slip Approved"
Chief Engineer
Yelahanka Zone
Bruhat Bangalore Mahanagara
Palike, Bangalore 92